500.43408X00 / W1293-01EK Page 2

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A modular computer system formed by connecting a processing module having a processor mounted thereon and a plurality of I/O modules in a stacked form via connectors forming a bus, wherein

each of said-I/O-modules-I/O module_comprises:

a module exclusive selection part for activating the module responsive to a module select signal input from a terminal in a <u>predetermined</u> position on a processing module side connector, the <u>predetermined</u> position being the same for said I/O modules; and

an ID output part for outputting identification information of its own I/O module to a predetermined terminal on the connector on the basis of a-the module select activate-signal output from said module exclusive selection part:

wherein said processing module comprises:

a module select signal output part for outputting the module select signal to a connector terminal to which the I/O module is connected; and

an ID input part for taking in the identification information output to the predetermined terminal on the connector,

said module select signal output part outputs the module select signal successively to the I/O modules connected to the processing module, and

said ID input part recognizes the I/O modules and the

500.43408X00 / W1293-01EK Page 3

identification information in association in accordance with an output order of the module select signal; and

wherein in accordance with the association of the I/O modules with the identification information, said processing module selects from differing preset bus configuration parameters and device drivers, from a memory, for accessing differing types of the I/O modules.

2. - 3. (Canceled)

4. (Currently Amended) A modular computer system formed by connecting a processing module having a processor mounted thereon and a plurality of I/O modules in a stacked form via connectors forming a bus, wherein each ef-said I/O-modules-I/O module comprises:

a module exclusive selection part for determining whether an selecting module select signal of module select signals input from a processing module side input connector is a signal on a predetermined connector terminal position of the input connector, that selects its own the I/O module, outputting an activate signal for the module select signal, when the module select signal is the signal on the predetermined connector terminal position that selects its own the I/O module, and transmitting shifting the module select signals to a differing terminals that is included in terminals on a of an output connector opposite to the processing module and that is in the same position as that of a terminal on the processing module side connector supplied with the signal that selects its own module. In a predetermined shifting when the module select signal input from the processing module side input connector is a signal that selects another I/O module; and

an ID output part for outputting identification information of its ownthe

I/O module to a predetermined terminal on the processing module-side-input

500.43408X00 / W1293-01EK Page 4

connector en the basis of responsive to the activate signal, wherein said ID output part comprises:

an ID generation part for generating identification
information of its own module; and
an output enable part for outputting the identification
information generated by said ID generation part, to a
predetermined terminal on the connector; and
wherein said ID generation part generates the identification information
as a serial signal on the basis of the activate signal and a clock signal.

5. (Currently Amended) The modular computer system according to claim 4-21, wherein

said module exclusive selection part has a plurality of wires connected to a plurality of connector terminals of the input connector on the processing module side,

one of the wires is connected to said ID output part, and
one of other wires is connected to a terminal that is included in a
plurality of connector terminals on a side opposite to the processing module the
ouput connector, and that is in the same position as that of the connector terminal
supplied with a module select signal that selects its own module.

6. (Currently Amended) The modular computer system according to claim 4, 21, wherein said module exclusive selection part is formed by connecting a D terminal of a D type flip-flop to one of connector terminals on the processing-module-side, input connector, connecting a Q output terminal of said D type flip-flop to said ID output part and to a terminal that is included in connector terminals on a side opposite to the processing-module the output connector and that is in the same position as that

500.43408X00 / W1293-01EK Page 5

of the connector terminal to which the D terminal is connected, and connecting a clock terminal of said D type flip-flop to a terminal to which connector terminals on the processing module side and the side opposite to the processing module input connector and output connector are connected in common.

- 7. (Original) The modular computer system according to claim 6, wherein said processing module drives the connector terminal to which the clock terminal is connected, with a clock signal, and drives the connector terminal to which the D terminal is connected, with an enable signal.
- 8. (Currently Amended) The modular computer system according to claim $4\frac{21}{21}$, wherein said ID output part comprises:

an ID generation part for generating identification information of its own module; and

an output enable part for outputting the identification information generated by said ID generation part to a predetermined terminal on the <u>input</u> connector.

- 9. (Currently Amended) The modular computer system according to claim 8, 4. wherein said ID output part comprises gate elements that are supplied with the identification information as inputs thereof and that are enabled by the activate signal.
- 10. (Currently Amended) The modular computer system according to claim $\frac{9}{12}$. wherein said ID generation part generates the identification information as a serial signal on the basis of the activate signal and a clock signal.

500.43408X00 / W1293-01EK Page 6

- 11. (Currently Amended) The modular computer system according to claim 4.–21, wherein said ID output part is formed by connecting wires driven by the activate signal to a plurality of predetermined terminals on the connector via PN-junction elements according to the identification information.
- 12. (Currently Amended) The modular computer system according to claim 4, wherein said processing module comprises:

a module select signal output part for outputting the module select signals to a the input connector terminal to which the a first I/O module is connected;

an ID input part for taking in the identification information output to the predetermined terminal on the input connector, said module select signal output part outputs the selecting module select signal successively to the I/O modules eennested coupled to the processing module, and

said ID input part recognizes the I/O modules and the identification information in association in accordance with an output order of the <u>selecting</u> module select signal.

13. (Currently Amended) The modular computer system according to claim 12, wherein in accordance with the association of the I/O modules with the identification information, said processing module selects from differing preset bus configuration parameters and device drivers, from a memory, for accessing differing types of the I/O modules. wherein in accordance with the association of the I/O modules with the identification information; said processing module reads preset bus configuration parameters and device drivers of the I/O modules from a memory, and accesses the I/O modules.

500.43408X00 / W1293-01EK Page 7

14. - 20. (Canceled)

21. (New) A modular computer system formed by connecting a processing module having a processor mounted thereon and a plurality of I/O modules in a stacked form via connectors forming a bus, wherein

each I/O module comprises:

a module exclusive selection part for determining whether a module select signal input from a processing module side input connector is a signal that selects its own module, outputting an activate signal when the module select signal is the signal that selects its own module, and transmitting the module select signal to a terminal that is included in terminals on an output connector opposite to the processing module and that is in the same position as that of a terminal on the input connector supplied with the signal that selects its own module, when the module select signal input from the input connector is a signal that selects another module; and

an ID output part for outputting identification information of the I/O module to a predetermined terminal on the input connector responsive to the activate signal;

wherein said processing module comprises:

a module select signal output part for outputting the module select signals to the input connector to which a first I/O module is connected;

an ID input part for taking in the identification information output to the predetermined terminal on the input connector, said module select signal output part outputs the selecting module select signal successively to the I/O modules

500.43408X00 / W1293-01EK Page 8

coupled to the processing module, and
said ID input part recognizes the I/O modules and the
identification information in association in accordance with an
output order of the selecting module select signal; and
wherein in accordance with the association of the I/O modules with the
identification information, said processing module selects from differing preset bus
configuration parameters and device drivers, from a memory, for accessing differing
types of the I/O modules.